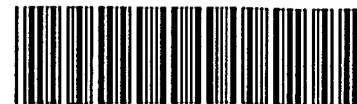


## RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/566,941  
Source: FWP  
Date Processed by STIC: 2/9/06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 02/09/2006

PATENT APPLICATION: US/10/566,941

TIME: 14:10:57

Input Set : A:\11916.0058.PCUS02.ST25.txt

Output Set: N:\CRF4\02012006\J566941.raw

3 <110> APPLICANT: Dyer, Cheryl J.  
 4 Du, Fengxing  
 5 Grosz, Michael D.  
 6 Byatt, John C.  
 8 <120> TITLE OF INVENTION: USE OF A SINGLE NUCLEOTIDE POLYMORPHISM IN THE CODING REGION  
 OF  
 9 THE LEPTIN RECEPTOR GENE TO ENHANCE PORK PRODUCTION  
 11 <130> FILE REFERENCE: 11916.0058.PCUS02  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/566,941  
 C--> 13 <141> CURRENT FILING DATE: 2006-02-02  
 13 <150> PRIOR APPLICATION NUMBER: US. 60/553,582  
 14 <151> PRIOR FILING DATE: 2004-03-16  
 16 <150> PRIOR APPLICATION NUMBER: U.S. 60/493,158  
 17 <151> PRIOR FILING DATE: 2003-08-07  
 19 <160> NUMBER OF SEQ ID NOS: 44  
 21 <170> SOFTWARE: PatentIn version 3.3  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 21  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Artificial Sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: Synthetic nucleotide  
 31 <400> SEQUENCE: 1  
 32 atgatgaggc agttgttgca a 21  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 20  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: Artificial Sequence  
 40 <220> FEATURE:  
 41 <223> OTHER INFORMATION: Synthetic nucleotide  
 43 <400> SEQUENCE: 2  
 44 ccttccctgc aatgttgtct 20  
 47 <210> SEQ ID NO: 3  
 48 <211> LENGTH: 773  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: Sus scrofa  
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 55 tgatccctgg tcctggaaat tcacatgctg tgcattgtggc catatatata tgtatgtatg 120  
 57 tgtatatata tacactcaca tacatgtata tatatatatg tgagtgtata tatatatatta 180  
 59 tgatgtcaaa ttaatgggga aaataaaatg tgaatttcta aaaaggggtg cttaaagagtg 240  
 61 gcattatctc taagggtata tgctccctct taagtataac actttggaca atggaagagc 300  
 63 tttgtattag gcactgtttg agcacttgga aagttaaata attattgttg aagactgcat 360  
 65 gttttaatct tagatacttc ctatttatgt cttagtcaaa atgattaatt gcttttctat 420

(pg. 6)

## RAW SEQUENCE LISTING

DATE: 02/09/2006

PATENT APPLICATION: US/10/566,941

TIME: 14:10:57

Input Set : A:\11916.0058.PCUS02.ST25.txt

Output Set: N:\CRF4\02012006\J566941.raw

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67 gtgtctttta aatgtcctaa cagaatttat ttatgtgata actgcatttg acttggcata      480
69 tccaattact ccttggaaat ttaagttgtc ttgcatgcca ccaaatacaa catatgactt      540
71 cctcttgccct gctggaatct caaagaacac ttcaactttg aatggacatg atgaggcagt      600
73 tgttgaaacg gaacttaatt caagtgttac ctacttatca aacttatctt ctaaaacaac      660
75 tttccactgt tgcttttgga gtgaggaaga taaaaactgc tctgtacatg cagacaacat      720
77 tgcagggaag gcatttgttt cagcagtaaa ttccttagtt tttcaacaaa cag              773
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82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial Sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Synthetic nucleotide
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93 <211> LENGTH: 20
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95 <213> ORGANISM: Artificial Sequence
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110 <223> OTHER INFORMATION: Synthetic nucleotide
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129 <211> LENGTH: 16
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Synthetic nucleotide
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140 <210> SEQ ID NO: 9
141 <211> LENGTH: 17
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## RAW SEQUENCE LISTING

DATE: 02/09/2006

PATENT APPLICATION: US/10/566,941

TIME: 14:10:57

Input Set : A:\11916.0058.PCUS02.ST25.txt

Output Set: N:\CRF4\02012006\J566941.raw

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146 <223> OTHER INFORMATION: Synthetic nucleotide
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152 <210> SEQ ID NO: 10
153 <211> LENGTH: 421
154 <212> TYPE: DNA
155 <213> ORGANISM: Sus scrofa
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159 <221> NAME/KEY: CDS
160 <222> LOCATION: (133)..(420)
162 <220> FEATURE:
163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (299)..(299)
165 <223> OTHER INFORMATION: N = T or C
167 <220> FEATURE:
168 <221> NAME/KEY: misc_feature
169 <222> LOCATION: (310)..(310)
170 <223> OTHER INFORMATION: N = T or A
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (311)..(311)
175 <223> OTHER INFORMATION: N = T or C
177 <400> SEQUENCE: 10
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180 tagatacttc ctatttatgt cttagtcaaa atgattaatt gcttttctat gtgtctttta      120
182 aatgtcctaa ca gaa ttt att tat gtg ata act gca ttt gac ttg gca tat      171
183           Glu Phe Ile Tyr Val Ile Thr Ala Phe Asp Leu Ala Tyr
184           1           5           10
186 cca att act cct tgg aaa ttt aag ttg tct tgc atg cca cca aat aca      219
187 Pro Ile Thr Pro Trp Lys Phe Lys Leu Ser Cys Met Pro Pro Asn Thr
188       15           20           25
190 aca tat gac ttc ctc ttg cct gct gga atc tca aag aac act tca act      267
191 Thr Tyr Asp Phe Leu Leu Pro Ala Gly Ile Ser Lys Asn Thr Ser Thr
192 30           35           40           45
W--> 194 ttg aat gga cat gat gag gca gtt gtt gaa ang gaa ctt aat nna agt      315
195 Leu Asn Gly His Asp Glu Ala Val Val Glu Xaa Glu Leu Asn Xaa Ser
196           50           55           60
198 ggt acc tac tta tca aac tta tct tct aaa aca act ttc cac tgt tgc      363
199 Gly Thr Tyr Leu Ser Asn Leu Ser Ser Lys Thr Thr Phe His Cys Cys
200           65           70           75
202 ttt tgg agt gag gaa gat aaa aac tgc tct gta cat gca gac aac att      411
203 Phe Trp Ser Glu Glu Asp Lys Asn Cys Ser Val His Ala Asp Asn Ile
204           80           85           90
206 gca ggg aag g                                     421
207 Ala Gly Lys
208           95
211 <210> SEQ ID NO: 11

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## RAW SEQUENCE LISTING

DATE: 02/09/2006

PATENT APPLICATION: US/10/566,941

TIME: 14:10:57

Input Set : A:\11916.0058.PCUS02.ST25.txt

Output Set: N:\CRF4\02012006\J566941.raw

212 <211> LENGTH: 96  
 213 <212> TYPE: PRT  
 214 <213> ORGANISM: Sus scrofa  
 216 <220> FEATURE:  
 217 <221> NAME/KEY: misc\_feature  
 218 <222> LOCATION: (56)..(56)  
 219 <223> OTHER INFORMATION: The 'Xaa' at location 56 stands for Lys, Arg, Thr, or Met.  
 221 <220> FEATURE:  
 222 <221> NAME/KEY: misc\_feature  
 223 <222> LOCATION: (60)..(60)  
 224 <223> OTHER INFORMATION: The 'Xaa' at location 60 stands for Lys, Arg, Thr, Ile, Glu,  
 Gly,  
 225 Ala, Val, Gln, Pro, Leu, or Ser.  
 227 <400> SEQUENCE: 11  
 229 Glu Phe Ile Tyr Val Ile Thr Ala Phe Asp Leu Ala Tyr Pro Ile Thr  
 230 1 5 10 15  
 233 Pro Trp Lys Phe Lys Leu Ser Cys Met Pro Pro Asn Thr Thr Tyr Asp  
 234 20 25 30  
 237 Phe Leu Leu Pro Ala Gly Ile Ser Lys Asn Thr Ser Thr Leu Asn Gly  
 238 35 40 45  
 W--> 241 His Asp Glu Ala Val Val Glu Xaa Glu Leu Asn Xaa Ser Gly Thr Tyr  
 242 50 55 60  
 245 Leu Ser Asn Leu Ser Ser Lys Thr Thr Phe His Cys Cys Phe Trp Ser  
 246 65 70 75 80  
 249 Glu Glu Asp Lys Asn Cys Ser Val His Ala Asp Asn Ile Ala Gly Lys  
 250 85 90 95  
 253 <210> SEQ ID NO: 12  
 254 <211> LENGTH: 4050  
 255 <212> TYPE: DNA  
 256 <213> ORGANISM: Sus scrofa  
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 259 cttctctgaa gtaagatgac gtgtccaaag ttctctgtgg ctttggttaca ttgggaattt 60  
 261 atttatgtga taactgcatt tgacttggca tatccaatta ctcttggaa atttaagttg 120  
 263 tcttgcacgc caccaaatac aacatatgac ttctcttgc ctgctggaat ctcaaagaac 180  
 265 acttcaactt tgaatggaca tgatgaggca gttgttgaaa cggaacttaa tataagtggg 240  
 267 acctacttat caaacttatc ttctaaaaca actttccact gttgcttttg gagtgaggaa 300  
 269 gataaaaact gctctgtaca tgcagacaac attgcagggg aggcatttgt ttcagcagta 360  
 271 aattccttag tttttcaaca aacaggtgca aactggaaca tacagtgtcg gatgaaagag 420  
 273 gacttgaaat tattcatctg ttatatggag tcattattta agaatccttt caagaattat 480  
 275 gaccttaaag ttcacttttt atatgtttctg ctggaagtgt tagaaggatc acctctgtct 540  
 277 cccagaaaag gtagttttca gagcggttcaa tgcaactgca gtgctcgtga atgttggtgaa 600  
 279 tgccatgtgc ctgtgtcggc agccaaactc aactacaccc ttcttatgta tttgaaaatc 660  
 281 acatctggtg gagcagtttt tcaactcacct ctcatgtcag ttcagcccat aaacgttgtg 720  
 283 aagcctgac caccattagg tttgcatatg gaaatcacag aactggtaa tttaaagatt 780  
 285 tcttgggtcca gcccaacact ggtaccattt caacttcaat atcaagtaaa atattcagag 840  
 287 aattctacaa caaatatgag agaagctgat gagatcgtct cagatacatc tctgcttgta 900  
 289 gacagtgtgc ttcccgggtc ttcatatgag gttcaggtga ggggcaagag actggatggc 960  
 291 ccaggaatct ggagtgtctg gagcaccctt tttactttta ccacacaaga tggtatatac 1020  
 293 tttccacctt aaattctgac aagtgttggg tctaacattt cttttcactg catctataaa 1080  
 295 aatgagaaca agatcgtttc ctcaaaaaag attgtttggt ggatgaattt agctgagaag 1140

## RAW SEQUENCE LISTING

DATE: 02/09/2006

PATENT APPLICATION: US/10/566,941

TIME: 14:10:58

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297	attcctcaaa	gtcagtatga	tgttggtgggt	gaccatgtta	gcaaagtcac	ttttcccaat	1200
299	atgaatgcaa	ccaaacctcg	aggaaagtgc	acctatgatg	cagtgtactg	ctgcaatgag	1260
301	cacgagtgcc	accatcgcta	tgctgagtta	tatgtgattg	atgtcaatat	caatatatca	1320
303	tgtgaaactg	atgggtactt	aactaaaatg	acttgcagat	gggtcaaccaa	tgcaatccaa	1380
305	tcacttggtg	gaagcacttt	gcagttgagg	tatcatagga	gtagcctcta	ctgttctgac	1440
307	gttccatctg	tgcatcccat	atctgaaccc	aaagattgcc	agttgcagag	agatggtttt	1500
309	tatgaatgca	tatttcagcc	aataatttctg	ctatctggct	atacaatgtg	gattagaata	1560
311	aatcacccgt	tgggttcact	tgattctcca	ccaacatgtg	tcattcctga	ttccgtgggtg	1620
313	aaaccgctgc	ctccatccag	tgtgaaagca	gaaattactg	caaaaattgg	attactgaaa	1680
315	atatcttggg	agaagccagt	cttcccagag	aataatcttc	agttccagat	tcgctatggg	1740
317	ttaagtggaa	aagaagtaca	gtggaagatc	tatgaggtat	atgacacaaa	gttaaaatcc	1800
319	accagtctcc	cggtgccaga	cctgtgtgca	gtctatgctg	tccaggtgcg	ctgtaagagg	1860
321	ctagatggac	tgggctattg	gagtaattgg	agtactccag	cctacacagt	tgtcacggat	1920
323	gtaaaagtgc	ctatcagagg	acctgaattt	tggagaataa	ttaatgaaga	tgccactaaa	1980
325	aaagagagga	atatcactct	gctctggaag	cctctgatga	aaaatgactc	attgtgcagc	2040
327	gtgagaagtt	atgtggtgaa	acatcatact	tcccgccatg	gaacatgggc	agaagatgtg	2100
329	ggaaaccaca	ctaaactcac	tttccttttg	acagagcaag	cacattctgt	tacagttctg	2160
331	gccgtcaatt	caattgggtg	ttcttcgcga	aattttaatt	taacattctc	atggccccatg	2220
333	agcaaagtaa	atatcgtgca	gtcgctcagt	gcttatcctt	taaacagcag	ttgtgtgggt	2280
335	ctttcctggc	tgctctcacc	cagtgattac	aatctgatgt	attttattct	tgagtggaaa	2340
337	attcttaatg	aagaccatga	aattaaatgg	ctcagaatcc	cttcctctgt	taaaaagtat	2400
339	tatatccacg	atcattttat	tcctattgag	aaatatcaat	tcagtcttta	ccccatattc	2460
341	atggaaggag	tggggaaacc	gaagataatt	aacagtttca	cccaagatgg	tgaaaaacac	2520
343	cggaatgatg	caggtctata	tgtaattgtg	ccaataatta	tttcctcttc	aatcttattg	2580
345	cttggaacat	tgtaaatgtc	acaccaaaga	atgaaaaagc	tattttggga	agatgttcca	2640
347	aacccaaga	actgttcctg	ggcacaagga	cttaattttc	agaagccgga	aacatttgag	2700
349	catcttttta	tcaagcacac	agaatcagtg	acatttggcc	ctcttctttt	ggagcctgaa	2760
351	accatttcag	aagatatcag	tgttgatata	tcatggaaaa	ataaggatga	gatgggtgcca	2820
353	ccaactacag	tctctctact	cttgacaact	ccggaccttg	aaaagagttc	aatttgtatt	2880
355	agtgaccaac	gcagcagtg	ccacttctct	gaggctgaga	gcatggagat	aactcgtgag	2940
357	gatgaaaata	gaagacagcc	ctctattaaa	tatgccaccc	tgctcagcag	ccctaaatca	3000
359	ggtgaaactg	agcaagagca	agaacttgta	agtagcttgg	tcagcagatg	cttctctagc	3060
361	agcaattccc	taccgaaaga	gtctttctcg	aatagctcat	gggagataga	aaccagggcc	3120
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365	ggattggatg	aacttatgaa	gtttgagggg	aatttcccca	aagaacataa	tgacgaaagg	3240
367	tctgtctatt	atttaggagt	cacctcaatc	aaaaagagag	agagtgatgt	gtttttgact	3300
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377	tgatgggatg	agtcataatta	agggtaatat	gttctacatg	gtgttccata	gcagagagaa	3600
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389	tcttcaagag	tgtgattggt	ttatcttgag	gtgtctttgt	tttacactaa	tttacacata	3960
391	cacatatgca	cacttgatc	taataggcat	cctgtacatt	gttaaatata	tgatgtactt	4020
393	gtttttgtgc	taaaaaaaaa	aaaaaaaaaa				4050

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/566,941

DATE: 02/09/2006  
TIME: 14:10:59

Input Set : A:\11916.0058.PCUS02.ST25.txt  
Output Set: N:\CRF4\02012006\J566941.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:10; Xaa Pos. 56,60  
Seq#:11; Xaa Pos. 56,60  
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Seq#:15; N Pos. 692,693,696,697,698,699,700,702,731,732,739,745,746,751,752  
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Seq#:42; N Pos. 103  
Seq#:43; N Pos. 192

## VERIFICATION SUMMARY

DATE: 02/09/2006

PATENT APPLICATION: US/10/566,941

TIME: 14:10:59

Input Set : A:\11916.0058.PCUS02.ST25.txt

Output Set: N:\CRF4\02012006\J566941.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:267  
M:341 Repeated in SeqNo=10  
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:48  
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:420  
M:341 Repeated in SeqNo=13  
L:469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:360  
M:341 Repeated in SeqNo=14  
L:506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:600  
M:341 Repeated in SeqNo=15  
L:865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:60  
L:896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:180